IN REPLY REFER TO: MT-450

United States Department of the Interior

BUREAU OF RECLAMATION
Great Plains Region
Montana Area Office
P.O. Box 30137
Billings, Montana 59107-0137

August 8, 2014

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6040
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana /s/ Tim H. Felchle

Subject: **Yellowtail Water Release Order - BHR No. 14-76**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.37; Storage: 1,012,703 acre-feet; River Release: 2,600 cfs; Inflow: 2,925 cfs;

GENERAL COMMENTS:

Recent streamflow measurements indicate actual river flows are lower than anticipated. To adjust for the variation in river flow, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam, applying a new shift as shown below.

SPECIAL NOTE: To provide the proper mixing of water releases to the Bighorn River in attempt to minimize PSAT levels, it is desirable to maintain the Yellowtail Afterbay Reservoir between a maximum elevation of 3192.0 feet and a minimum elevation of 3183.6 feet and provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates, plus or minus 10%.

YELLOWTAIL TURBINE RELEASE:

At 0800 hour on Monday, August 11, 2014:
Maintain average daily turbine release at 2,955 cfs (≈ 2,150 MW-Hours/day using 33.0 cfs/mw).

Due to major unit re-wind project, restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 0800 hour on Monday, August 11, 2014:
Maintain diversion to the Bighorn Canal at 425 cfs (maintain gage height = 74.58 applying -1.23 shift).
Maintain river release at 2,600 cfs (increase gage height to 60.63 & apply new shift of -0.55).
Maintain total release from the Afterbay at 3,025 cfs.